

A Description of the Male of *Cyclosa angusta* (Araneae: Araneidae)

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谷川明男¹⁾: ヤセゴミグモ (クモ目: コガネグモ科) の雄の記載

Abstract The male of *Cyclosa angusta* TANIKAWA, 1992 is described for the first time.

When the author described *Cyclosa angusta* TANIKAWA, 1992, he could not examine its male (TANIKAWA, 1992). In the spring of 1997, he collected two subadult males hanging on the orb webs built on the trunks of pine trees in Okinawajima Island, Southwest Japan. He kept them in small vials. Fortunately, the spiders became adult after moult on the next day. Thus the author could examine the male palp of the species. In this paper, the result of the examination will be dealt with. The description of the female was given in TANIKAWA (1992).

All the specimens used for this study are deposited in the collection of the Department of Zoology, National Science Museum, Tokyo.

Cyclosa angusta TANIKAWA, 1992 (Figs. 1–6)

Cyclosa laticauda: TANIKAWA, 1992, p. 20. [part.: 1 ♂ from Amami-oshima Island (NSMT-Ar 2321); nec *C. laticauda* BÖSENBERG et STRAND, 1906.]

Cyclosa angusta TANIKAWA, 1992, p. 26.

Specimens examined. 1 ♂, Mt. Yuwandake, Amami-ôshima Island, Kagoshima Pref., Japan, 24–VIII–1989, M. SADAMOTO leg. (NSMT-Ar 2321). 2 ♂, Oku-no-sanso, Oku, Okinawajima Is., Okinawa Pref., Japan, 31–III–1997 (subadult), 1–IV–1997 (adult after moult), A. TANIKAWA leg. (NSMT-Ar 3455–3456).

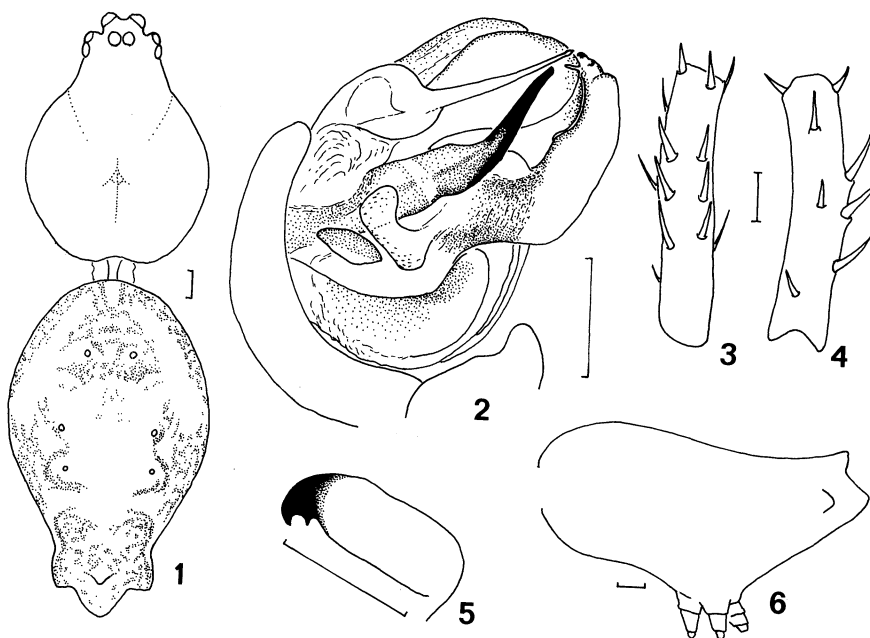
Description. Measurement (in mm). Total length, 4.94–5.59; carapace length 2.22–2.35; width 1.60–1.70; abdomen length 2.63–3.20, width 1.37–1.83. Length of legs of 1 ♂ from Okinawajima Is., Okinawa Pref. (NSMT-Ar 3455) as shown in Table 1.

Male. Carapace length/width 1.37–1.44, cephalic region projecting forward (Fig. 1); cervical groove indistinct; median ocular area length/width 0.87–1.06; anterior width/posterior width 1.44–1.53; posterior median eyes almost adjoining (Fig. 1). Chelicera with 3 teeth on both margins, respectively. Labium length/width 0.48–0.50; sternum length/width 1.36–1.42. Length of leg I/carapace 2.83–2.93; first coxa with small hook;

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Figs. 1-6. *Cyclosa angusta* TANIKAWA, 1992 (NSMT-Ar 3455). — 1. Male cephalothorax and abdomen, dorsal view. 2. Male palp, prolateral view. 3. Tibia of male 2nd leg, prolateral view. 4. Same, dorsal view. 5. Median apophysis of male palp (distal part). 6. Male abdomen, lateral view. (Scales: 0.25 mm.)

Table 1. Measurement of leg segments of *Cyclosa angusta* TANIKAWA, 1992 (in mm; ♂).

Leg	Tarsus	Metatarsus	Tibia	Patella	Femur	Total
I	0.69	1.45	1.65	0.89	2.15	6.83
II	0.60	1.28	1.38	0.86	1.93	6.05
III	0.48	0.73	0.78	0.59	1.33	3.91
IV	0.53	1.18	1.20	0.73	1.75	5.39

retrolateral side of 1st femur distally with a row of 6-8 spines; spiniformation of 2nd tibia as shown in Figs. 3-4.

Male palp (Fig. 2): patella with one macroseta; median apophysis distally bent and bifurcated, basally with a wing-shaped lamella; embolus rostriform; paramedian apophysis visible in prolateral view.

Abdomen length/width 1.75-1.78, caudally with four tubercles (Figs. 1, 6).

Coloration and markings in alcohol. Carapace dark brown. Abdomen light brown mottled with dark brown (Fig. 1).

Range. Japan (Amami-oshima Island, Okinawajima Island and Iriomotejima Island).

Remarks. As was mentioned in the previous paper (TANIKAWA, 1992), *C. angusta* seems to be closely related to *Cyclosa laticauda* BÖSENBERG et STRAND, 1906. The shape of the male palpal organ of *C. angusta* is very similar to that of *C. laticauda*.

However, the males of these species can be separated from each other by the shape of abdomen. The caudal part of abdomen is vertically bifurcated in both the species. In *C. laticauda*, both tubercles are close to each other, while in *C. angusta* the upper tubercle is situated anteriorly (Fig. 6). A pair of dorsal tubercles on the anterior half of abdomen are distinct in *C. laticauda*, but indistinct in *C. angusta* (Fig. 6).

Acknowledgments

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摘 要

Cyclosa angusta TANIKAWA, 1992 ヤセゴミグモの雄を初めて記載した.

Reference

- TANIKAWA, A., 1992. A revisional study of the Japanese spiders of the genus *Cyclosa* MENGE. *Acta arachnol.*, **41**:11-85.